

ABSTRACT

Cases of theft of motor vehicles lately often occur in Indonesia. Although a security device in the form of CCTV has been provided, but the vehicle has been successfully taken by the thief, the instructions obtained are only in the form of video recording without being able to know the whereabouts of the vehicle

In this final project, a vehicle position monitoring device has been made using Arduino ProMini, GPS (Global Positioning System) and GPRS (General Packet Radio Service) modules and a battery as a power supply for the device. The GPS module functions to determine the coordinates of the device position in Real Time and is displayed on an Android-based application via GPRS serial communication using the GSM module. The way this tool works includes the process of finding the coordinates of the existence of an object, sending the coordinates obtained, and storing data on a server that will be forwarded to the smartphone.

From the test results, the tracking device from the GPS TRACKER application is proven to be able to find out the location of the coordinates of the object location with a data transmission delay time of 34-38 seconds and the data accuracy is the same as the location of Google Maps.

Keywords: Kidnapping, GPS, GPRS, Microcontroller, Google Maps.